

Title (en)

MULTI-PATH COOLING FOR ROBOTIC SYSTEMS

Title (de)

MEHRWEG-KÜHLUNG FÜR ROBOTERSYSTEME

Title (fr)

REFROIDISSEMENT À TRAJETS MULTIPLES POUR DES SYSTÈMES ROBOTIQUES

Publication

EP 3934864 A4 20221130 (EN)

Application

EP 20766797 A 20200228

Priority

- US 201962813505 P 20190304
- US 2020020373 W 20200228

Abstract (en)

[origin: WO2020180676A1] This application describes multi-path cooling arrangements for robotic systems. For example, a robotic system can include a heat generating component positioned within a base that supports one or more articulating links. The heat generating component can be supported on a thermally conductive bracket within the base. The robotic system can include a first thermally conductive path configured to dissipate heat from the heat generating component. The first thermally conductive path can include the bracket and a first heatsink connected to the bracket. The robotic system can also include a second thermally conductive path configured to dissipate heat from the heat generating component. The second thermally conductive path can include the bracket, a thermal pad positioned on the bracket, and a second heatsink positioned on a second side of the base.

IPC 8 full level

B25J 19/00 (2006.01); **B25J 9/00** (2006.01); **B25J 9/04** (2006.01); **B25J 9/06** (2006.01); **B25J 9/10** (2006.01); **B25J 9/12** (2006.01);
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CPC (source: EP US)

B25J 9/042 (2013.01 - US); **B25J 9/044** (2013.01 - EP); **B25J 19/0054** (2013.01 - EP US); **H05K 7/20409** (2013.01 - US)

Citation (search report)

- [A] US 9431881 B2 20160830 - CLENDENEN DAVID ALLEN [US], et al
- [A] US 2017341223 A1 20171130 - HAHAKURA SEIJI [JP], et al
- [A] US 2005087034 A1 20050428 - FRIEDRICH BORIS [DE], et al
- [A] US 2019061178 A1 20190228 - CHIKARA SHINYA [JP], et al
- See also references of WO 2020180676A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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JP 2022521440 A 20220407; JP 7255696 B2 20230411; US 11766787 B2 20230926; US 2022143848 A1 20220512

DOCDB simple family (application)

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